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PATIENT**Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A system for assessing a health and functionality of a locomotive friction modifying system wherein the locomotive has a friction modifying applicator associated with a wheel of the locomotive for applying a friction modifying agent to a rail on which the wheel is traversing, the system comprising:

a sensor for detecting a predetermined operational condition of the locomotive;
a controller associated with the sensor and responsive to input from the sensor for determining a per unit creep of an axle of the locomotive, determining a tractive effort of the axle of the locomotive, determining a friction modifying applicator state for the applicator associated with the axle, and comparing the determined per unit creep of the axle, the tractive effort of the axle and the state of the friction modifying applicator associated with the axle to a predetermined value indicative of the health and functionality of the locomotive friction modifying system whether the friction modifying agent is being applied to the rail and providing an indication of the health and functionality of the locomotive friction modifying system whether the friction modifying agent is being applied to the rail.

Claim 2 (original): The system of claim 1 wherein the friction modifying agent in the friction modifying applicator is one that increases a coefficient of friction at a contact area for enhanced adhesion.

Claim 3 (original): The system of claim 1 wherein the friction modifying agent in the friction modifying applicator is one that decreases a coefficient of friction at a contact area for enhanced adhesion.

Claim 4 (original): The system of claim 1 wherein the friction modifying agent in the friction modifying applicator is one that removes another friction modifying agent from a contact area.

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Claim 5 (original): The system of claim 2 wherein the friction modifying agent is one from a group of agents comprising sand, sand-like material, and air.

Claim 6 (original): The system of claim 3 wherein the friction modifying agent is one from a group of agents comprising air, steam, water, lubricating fluid, and oil.

Claim 7 (currently amended): The system of claim 1 wherein the controller provides the indication of ~~the health and functionality of the locomotive friction modifying system~~ whether the friction modifying agent is being applied to the rail by providing a signal to a locomotive operator, a designated maintainer, remote monitoring equipment, or remote monitoring personnel.

Claim 8 (original): The system of claim 1 wherein the controller determines the friction modifying applicator state for the applicator by determining if an applicator control valve is closed or open, or if a flow from an applicator is blocked.

Claim 9 (currently amended): The system of claim 1 wherein the predetermined value is further indicative of the health and functionality of the locomotive friction modifying system, and wherein the controller is unable to determine the health and functionality of the locomotive friction modifying system and provides a signal to that effect.

Claim 10 (currently amended): The system of claim 9 wherein the controller utilizes a predetermined length of time during which no change in the health and functionality of the locomotive friction modifying system occurs to provide a signal indicating that the health and functionality of the locomotive friction modifying system is unknown.

Claim 11 (currently amended): A method for assessing a health and functionality of a locomotive friction modifying system wherein the locomotive has a friction modifying applicator associated with a wheel supported on an axle of the locomotive for applying a friction modifying agent to ~~the~~ a rail on which the wheel is traversing, comprising:
determining per unit creep of an axle of the locomotive;

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determining tractive effort of the axle of the locomotive;
determining friction modifying applicator state for the applicator associated with the axle;

comparing the determined per unit creep of the axle, tractive effort of the axle and state of the friction modifying applicator associated with the axle to a predetermined value indicative of ~~the health and functionality of the locomotive friction modifying system~~ whether the friction modifying agent is being applied to the rail and providing an indication of ~~the health and functionality of the locomotive friction modifying system~~ whether the friction modifying agent is being applied to the rail.

Claim 12 (original): The method of claim 11 wherein the step of applying at least one friction modifying agent includes applying one that increases a coefficient of friction at a contact area.

Claim 13 (original): The method of claim 11 wherein the step of applying at least one friction modifying agent includes applying one that decreases a coefficient of friction at a contact area.

Claim 14 (original): The method of claim 11 wherein the step of applying at least one friction modifying agent includes applying one that removes a friction modifying agent from a contact area.

Claim 15 (original): The method of claim 12 wherein the step of applying at least one friction modifying agent includes applying at least one selected from a group of agents comprising sand, sand-like material, and air.

Claim 16 (original): The method of claim 13 wherein the step of applying at least one friction modifying agent includes applying at least one selected from a group of agents comprising air, steam, water, lubricating fluid, and oil.

Claim 17 (currently amended): The method of claim 11 wherein the step of providing an indication ~~the health and functionality of the locomotive friction modifying system~~ of

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whether the friction modifying agent is being applied to the rail is done by providing a signal to a locomotive operator, a designated maintainer, remote monitoring equipment, or remote monitoring personnel.

Claim 18 (original): The method of claim 11 wherein the step of determining the friction modifying applicator state for the applicator is done by determining if an applicator control valve is closed or open, or if a flow from the applicator is blocked.

Claim 19 (currently amended): The method of claim 11 wherein the predetermined value is further indicative of the health and functionality of the locomotive friction modifying system, and wherein health and functionality of the locomotive friction modifying system cannot be determined, further comprising generating a signal to that effect.

Claim 20 (currently amended): The method of claim ~~11~~ 19 wherein after a predetermined length of time during which no change in the health and functionality of the locomotive friction modifying system has expired, providing a signal indicating that the health and functionality of the locomotive friction modifying system is unknown.